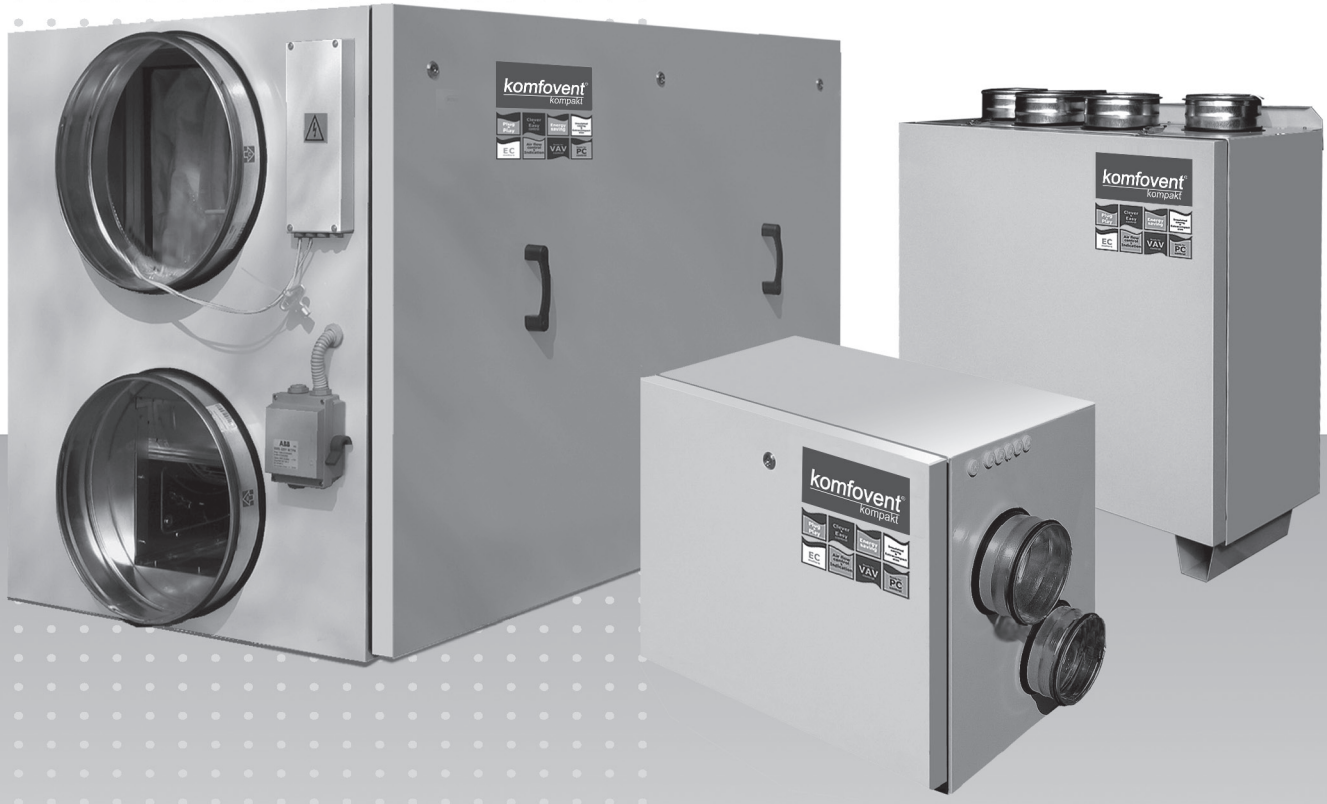
komfovent®
kompakt



RECU/REGO

Series Air Handling Units
Installation and Maintenance Service Manual

EN

Content

Safety Requirements 3
Transportation 3
Brief Description of the Unit 5
Installation 9
Maintenance space requirement 10
Section Connection 11
Heating coil connection 11
Maintenance 12
Technical Information 13
Ordering Key 18

This symbol indicates that this product is not to be disposed of with your household waste, according to the WEEE Directive (2002/96/EC) and your national law. This product should be handed over to a designated collection point, or to an authorised collection site for recycling waste electrical and electronic equipment (EEE). Improper handling of this type of waste could have a possible negative impact on the environment and human health due to potentially hazardous substances that are generally associated with EEE. At the same time, your cooperation in the correct disposal of this product will contribute to the effective usage of natural resources. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, waste authority, approved WEEE scheme or your household waste disposal service.

Safety Requirements

- To avoid accidents and/or unit damage, only a trained technician must carry out the connection.
- The appropriate Personal Protective Equipment (PPE) attire is worn relative to the operation being carried out.
- Electrical equipment is rated, connected and earthed in accordance with CE regulations.

The air handling unit must be plugged in to an electrical outlet (with earth), which is in good order and corresponds with all requirements of electric safety.
Before starting any operations inside the unit, make sure that the unit is switched off, and the power cable is unplugged.

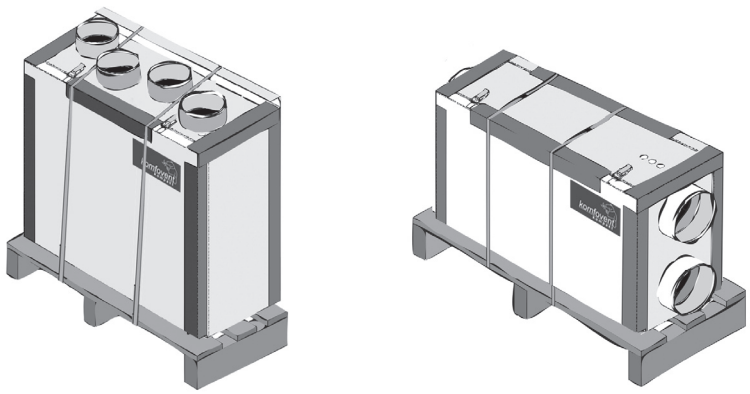
- Earth must be installed according EN61557, BS 7671
- The unit should be installed according to Installation and Maintenance Manual.
- Before starting the unit, check correct position of air filters.
- Service maintenance should be carried out only in conformity with the instructions specified herein below.

Transportation

The air handling units are ready for transit and storage (1 Picture). The unit is packed to prevent damage of the external and internal parts of the unit, dust and moisture penetration.

Corners of the air handling units are protected against the damage – protective corners are used. The entire unit is wrapped up in protective film. For transit or storage, units are mounted on timber pallets. The unit is fastened to the pallet with polypropylene packing tape over protective corners.

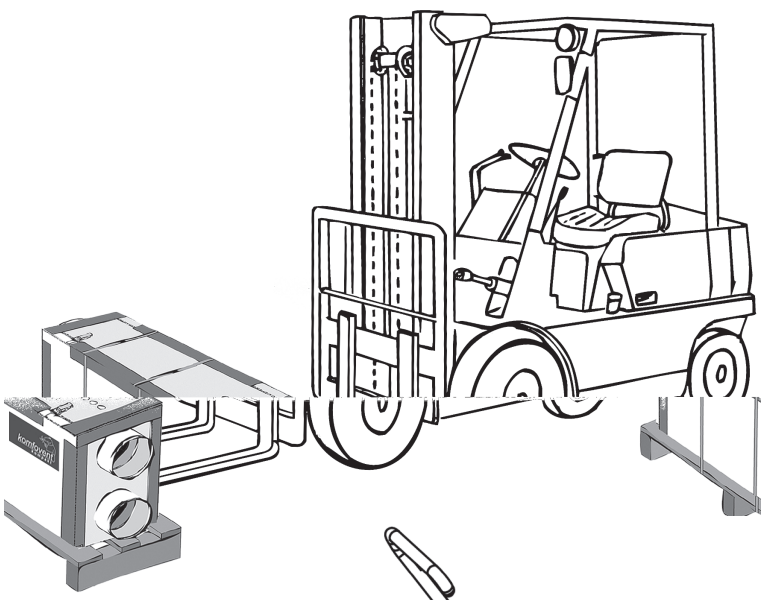
Vertical and horizontal units ready for transit and storage



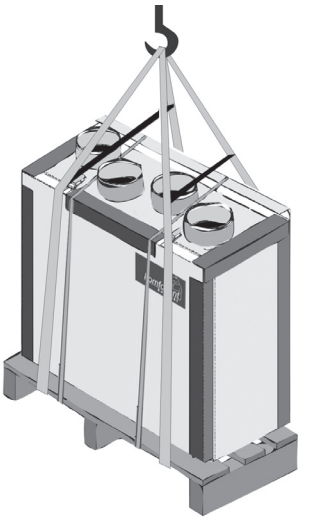
1 Picture

When unit is loaded or unloaded by crane, cargo rope is fastened in its designated places.
Forklift truck or hand pallet truck can transport air handling unit as it is shown (2 a, b, c Pictures).

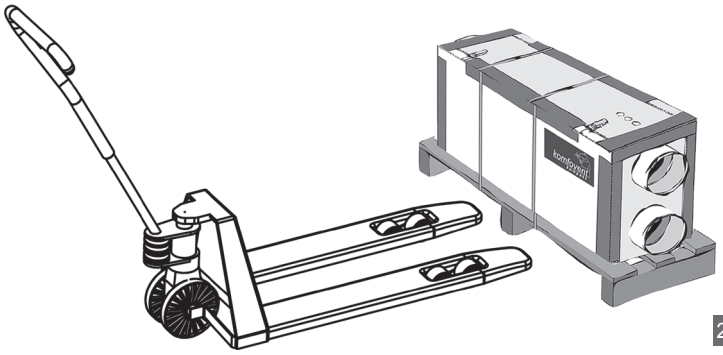
Vertical and horizontal unit transportation by forklift truck, hand pallet truck or crane



2 a Picture



2 c Picture



2 b Picture

2 a Unit is transported by forklift truck on a wooden pallet;
2 b Unit is transported by hand pallet truck on a wooden pallet;
2 c Unit is lifted by crane on a wooden pallet.

The unit should be examined upon receipt, to ensure that no visible damage has occurred during transit, and the advice note checked to ensure that all items have been received. If damage or delivery shortages are discovered, the carrier should be immediately informed. AMALVA should be notified within three days of receipt, with a written confirmation sent within seven days. AMALVA can accept no responsibility for damage by unloading from carrier or for subsequent damage on site.

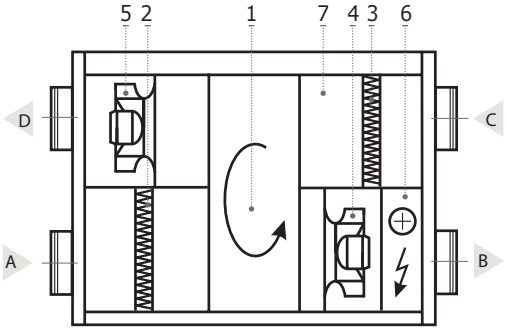
If the unit is not to be installed immediately, it should be stored in a clean, dry area. If stored externally, it should be adequately protected from the weather.

We reserve the right to make changes without prior notice.

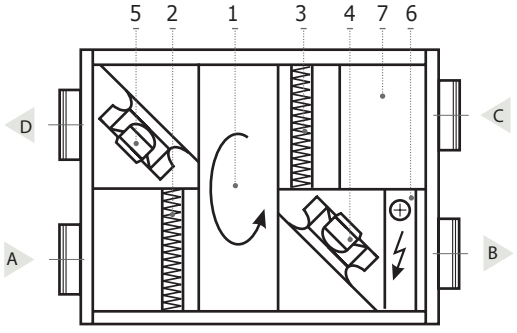
Brief Description of the Unit

- Casings of air handling units are made of galvanized steel sheets, which are powder painted. Mineral wool is used for thermal insulation and sound attenuation. Unit cover panels are 45 mm thick.
- The air handling units are intended for ventilation of medium-sized spaces (eg. single family houses, offices, etc.), having operating ambient temperature and relative humidity. As standard, the unit is designed for indoor placement. The operating temperature range for the unit is -30^{0}C ... 35^{0}C, outdoor air temperature.
  The air handling unit is not to be used to transport solid particles, nor in areas where there is a risk of explosive gases.
- REGO is equipped with a rotary heat exchanger, RECU - with plate heat exchanger, which may be replaced with summer cassette, when recuperation is needless, air filters, an electric or water heater, fans and automation control system, to ensure safe and efficient operation of the unit.
- Before you open the door, the unit must be dead and the fans must have been given time to stop (min.3 minutes).
- The unit contains heating elements that must not be touched when they are hot.
- To maintain a good indoor climate, comply with regulations and, to avoid condensation damage, the unit must never be stopped apart from during service/maintenance or in connection with an accident.
- If the unit is placed in spaces with high humidity, condensation might occur on the surface of the unit when outdoor temperatures are very low.

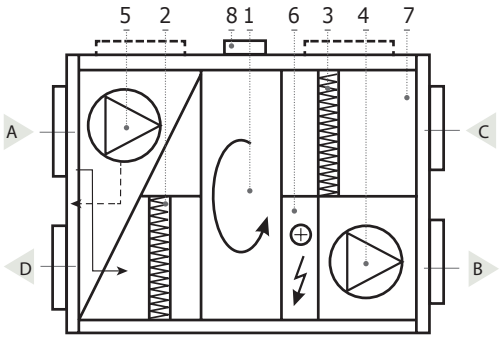
REGO Horizontal Air Handling Units Schemes



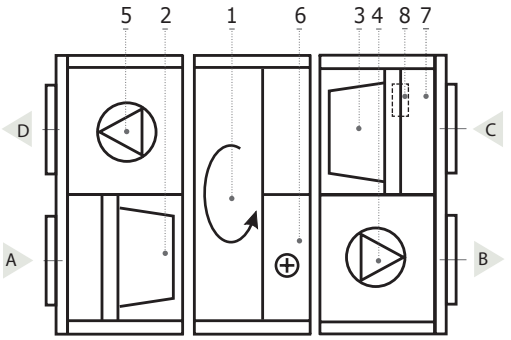
REGO 400/500/700HE(HW)** - R*



REGO 900/1200HE(HW) - R*



REGO1600/2000/2500HE/HW - R*



REGO 3000/4000/4500/7000HE/HW - R*

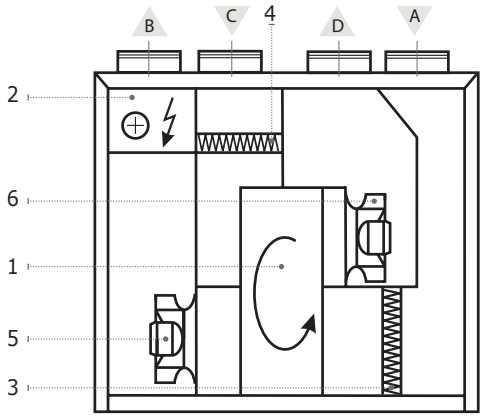
1. Rotary heat exchanger
2. Supply air filter
3. Exhaust air filter
4. Supply fan
5. Exhaust fan
6. Electric or water air heater
7. Automatic control devices
8. Main cable (L=1,5 m)

A Outdoor intake
B Supply air
C Extract indoor
D Exhaust air

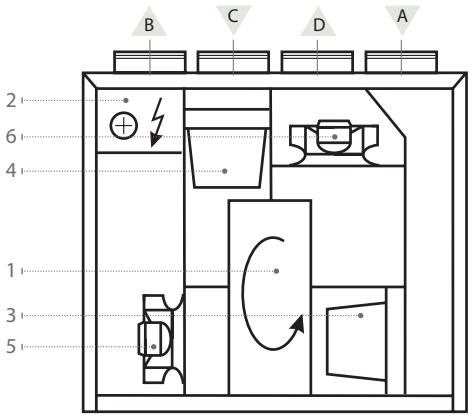
* R - right inspection side.
** Ducted water heater.
L - left inspection side is mirror view of the right.

3 Picture

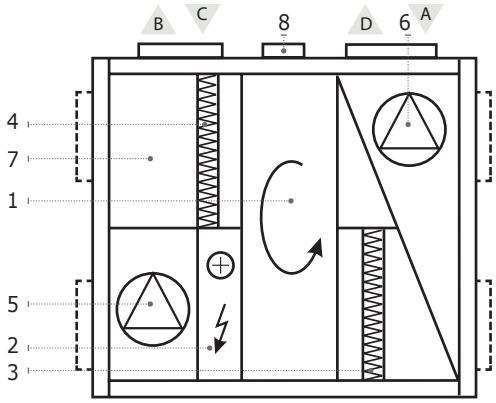
REGO Vertical Air Handling Units Schemes



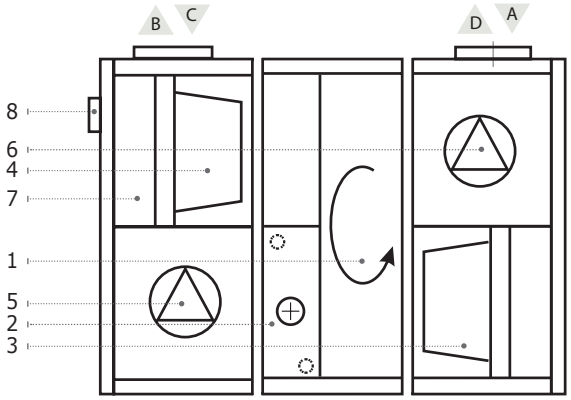
REGO 400/500/700VE(VW)** - L*



REGO 900/1200VE(VW)** - L*



REGO 1600/2000/2500VE - L*



REGO 3000/4000/4500VE - L*

1. Rotory heat exchanger
2. Electric or water air heater
3. Supply air filter
4. Exhaust air filter
5. Supply fan
6. Exhaust fan
7. Automatic control devices
8. Main cable (L=1,5 m)

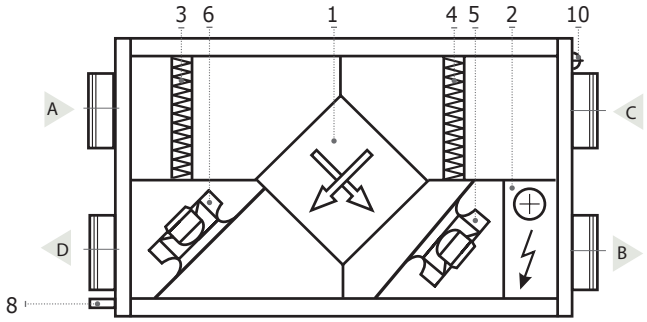
A Outdoor intake
B Supply air
C Extract indoor
D Exhaust air

4 Picture

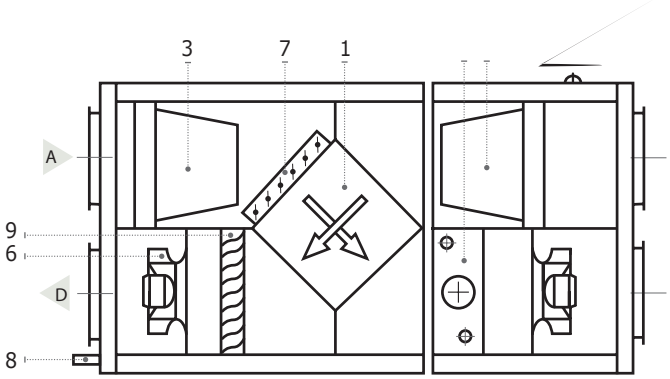
* L - left inspection side
** Ducted water heater.
R - right inspection side is mirror view of the left

We reserve the right to make changes without prior notice.

RECU Horizontal Air Handling Units Schemes



RECU 400/700/900HE(HW)** - R*



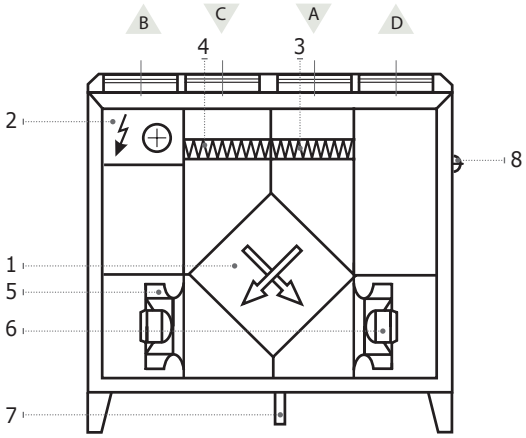
RECU 3000/4000/4500/7000HE/HW - R*

A Outdoor intake
B Supply air
C Extract indoor
D Exhaust air

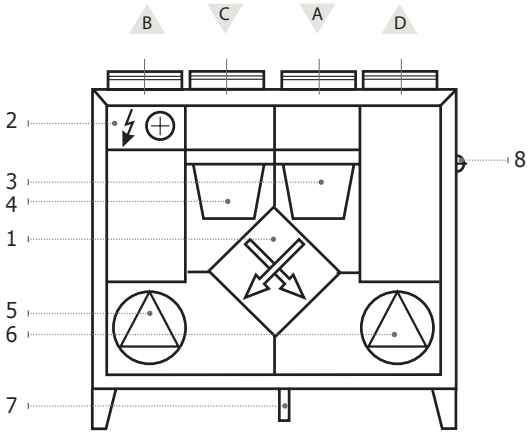
* R - right inspection side
** Ducted water heater.
L - left inspection side is mirror view of the right

5 Picture

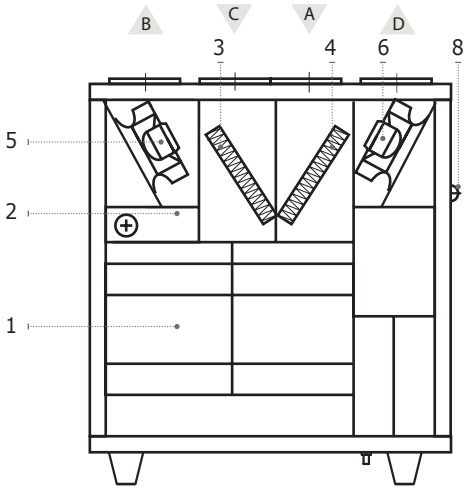
RECU Vertical Air Handling Units Schemes



RECU 400/700/900VE(VW)** - L*



RECU 1200/1600VE(VW) - L*



RECU 700VECF

1. Plate heat exchanger
2. Electric or water air heater
3. Supply air filter
4. Exhaust air filter
5. Supply fan
6. Exhaust fan
7. Condensate drain
   (the water trap must be installed D=15 mm)
8. Main cable (L=1,5 m)

6 Picture

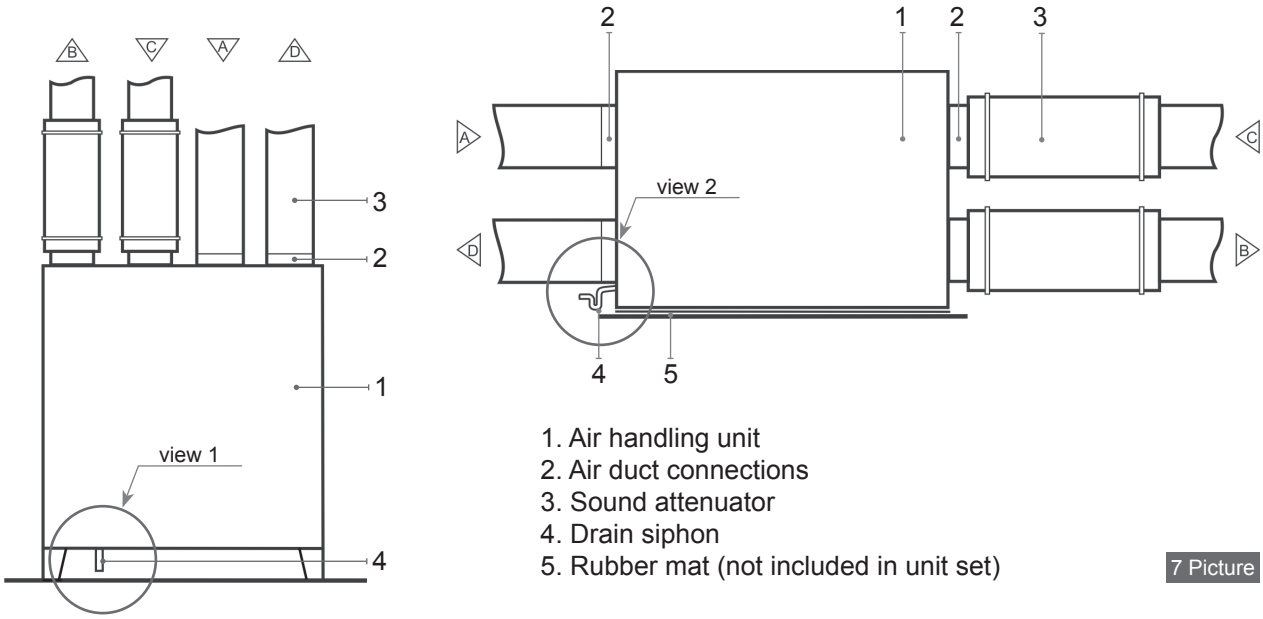
A Outdoor intake
B Supply air
C Extract indoor
D Exhaust air

* L - left inspection side
** Ducted water heater.
R - right inspection side is mirror view of the left

We reserve the right to make changes without prior notice.

Installation

Unit Installation Scheme



1. Air handling unit
2. Air duct connections
3. Sound attenuator
4. Drain siphon
5. Rubber mat (not included in unit set)

7 Picture

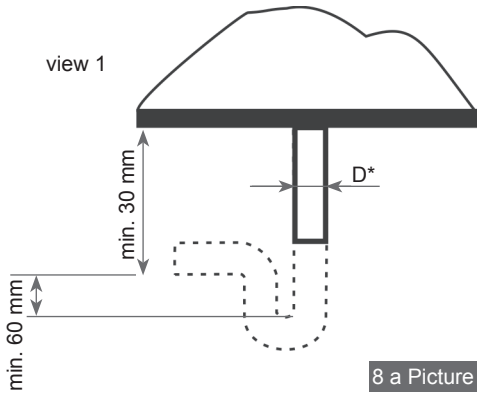
Condensate Drain Connections

All condensate drain connections must be correctly trapped. Incorrect trapping can result in flooding within the unit and consequent flooding of the immediate area. Fill the drain trap with water before starting up the unit.

All drain lines should be insulated where passing through any space where damage from condensation drip might occur. If the unit is installed in unheated premises the condensate pipe should be heat-insulated and heated with heating cable.

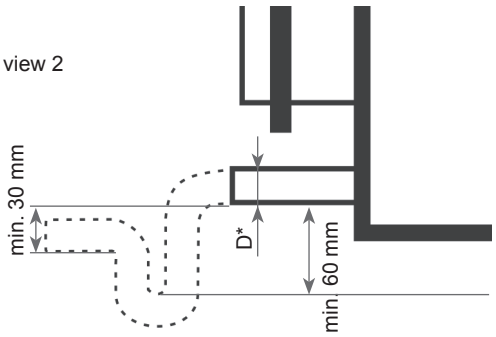
A condensate pipe and a drain trap

Drain scheme of Vertical Unit



8 a Picture

Drain scheme of Horizontal Unit



8 b Picture

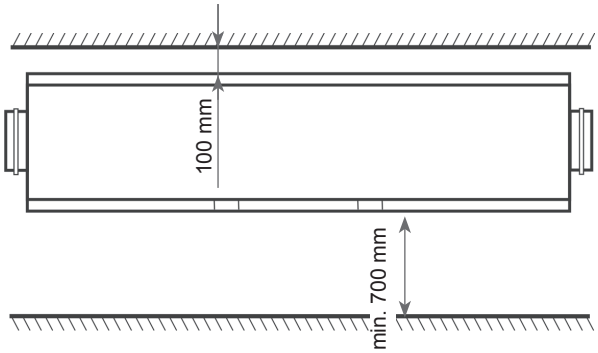
* RECU 1200 - D=15 mm
RECU 1600 - RECU 4000 - D=28 mm

Maintenance space requirements

It is recommended to install the air handling unit in a separate room or in the attic on a hard smooth surface insulated with a rubber mat. The place for the unit should be selected with allowance for minimum access to the unit for maintenance and service inspection. The minimum free space in front of the control panel should be not less than 700 mm. The free space over the top of the unit should be at least 300 mm (9 a, b Picture).

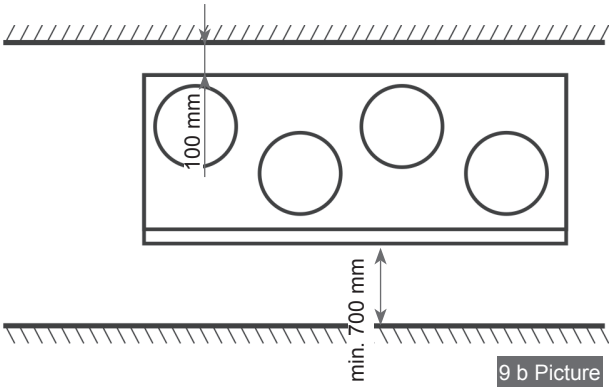
Rubber mat must be used when unit is going to be mounted on the wall.

Minimum Maintenance Space for Horizontal Units



9 a Picture

Minimum Maintenance Space for Vertical Units



9 b Picture

Ductwork

The air flows in/out air handling unit through ductwork. We recommend using galvanized steel (Zn 275 gr/m^2) ductwork, to ensure easy cleaning and durability. It is necessary to use the ductwork system with low air flow rate and small pressure drop to have necessary air volume and low sound level and save the energy. The appropriate sound attenuators will reduce the noise level of the fans in the premises.

All ductwork should be insulated with 50–100 mm thickness insulation to avoid the condensation.

Note: *temperature sensor B1 has to be mounted in the supply air duct under electric heater (see the functional diagram in Control System Electrical Installation and Operation Manual). It is necessary to leave space in straight air duct for sensor mounting and guarantee the space for maintenance and service work. Minimal space between the unit and B1 sensor is the space of double air duct diameter.*

⚠ Ductwork, steelwork and any other services should not be supported off the unit.

Section-to-section joints

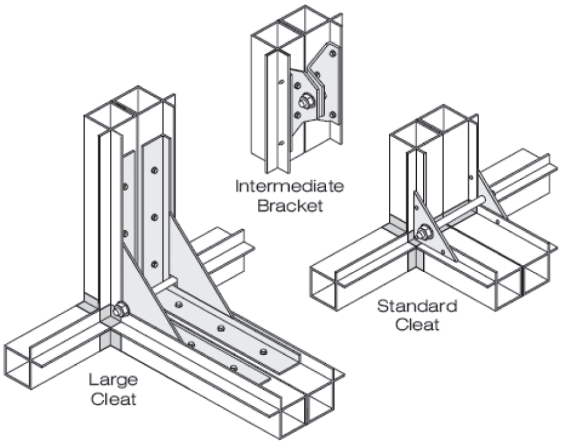
Ensure that sections or section assemblies are positioned in their proper sequence and that the unit handing and reference is correct. Sections should be accurately aligned prior to bolting together using the fixings and gaskets provided. The sealing gasket and fastening parts are available with every air handling unit.

Incorrect installation will result in air leakage, air blow marks to the unit casings and unacceptable noise.

Section connection scheme is shown in 10 Picture.

We reserve the right to make changes without prior notice.

Section Connection Scheme



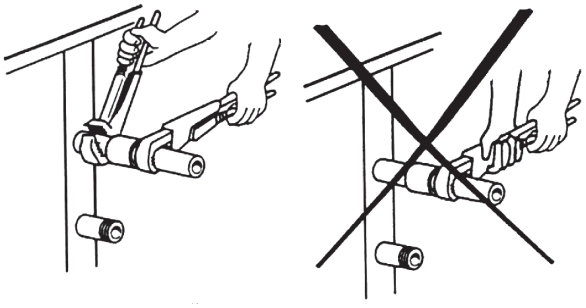
10 Picture

Heating coil connection*

Pipe work should be connected in accordance with good engineering practice. All pipe work must be adequately supported to ensure that no additional load is stressing the unit.

Mounting the pipes on the heating coil, tight the pipes with spanners. As shown in 11 Picture.

Fitting Pipes Connection



11 Picture

The pipe work should be done in order to ensure the space for maintenance and service work. When carrying out the installation of heater pipes, make sure that hot water supply is completely disconnected. Before start-up of the air handling unit, the heater system should be filled in with water. Glycol is used in the air handling units with coil heat exchanger. Never pour glycol down a drain; collect it in a receptacle and leave it at a recycling centre or the like. Glycol is highly dangerous to consume and can cause fatal poisoning or damage the kidneys. Contact a doctor! Avoid breathing glycol vapour in confined spaces. If you get glycol in your eyes, fush them thoroughly with water (for about 5 minutes).

**If water heater build in.*

⚠ When operating air handling unit in the temperatures lower than 0°C, it is necessary to use glycol additionally or assure the reversible heating agent temperature more than 25°C.

⚠ It is important to maintain air heaters and coolers cleanliness; that is to change filters installed in the air handling unit on time. If the air heater or cooler gets dirty, to perform periodical cleaning.

Final Inspection

After installation of the unit, a thorough inspection should be carried out. This should include inspecting the inside of the unit and removing debris and tools, which may have been left behind by on site contractors. Remove all packing element from unit (corners, polystyrene and polythene softeners). Replace any panels, which may have been removed and close all access doors, ensuring that the door sealing gaskets have not been damaged.

Maintenance

It is recommended to carry out routine maintenance of the air handling unit REGO/RECU 3 – 4 times per year.

Besides preventive maintenance inspection, the following operations should be performed:

1. **Rotary heat exchanger check.** Inspection of the rotary heat exchanger is performed once per year. Free rotation of the rotary heat exchanger, continuity of the rotating belt, absence of damages of the rotor drums and the seal gasket are checked. It is necessary to check the stretch of belt. Free belt will slide and the efficiency of rotary heat exchanger will fall down. To reach maximal efficiency, rotor must turn at least 8 times per minute. Polluted heat exchanger will decrease efficiency. Clean heat exchanger with an air blast or wash with tepid water. Check out water falling on the electric motor.

2. **Plate heat exchanger check.** Inspection and dedusting of the plate heat exchanger is performed once per year (it is removed from the unit and blown with an air blast or washed with tepid water).

Note: *plate heat exchanger may be replaced with summer cassette, when recuperation is needless.*

3. **Fans check** (once per year). Polluted fans decrease efficiency.

> ⚠ Before performing any inspection work, check whether the unit is switched off from the electric power supply.

Fans should be carefully cleaned with textile or soft brush. Do not use water. Do not break balance. Check if direction of fan turns is right, because wrong direction of turns gives only 30% rating. Check if fan freely rotates and is not mechanically damaged, if impeller does not touch suction nozzles, fan does not spread noise, the pressure tubes are connected to the nozzle (if it is required), mounting bolts are screwed.
The rubber couplings connecting the motor base and the unit should be visually inspected for signs of wear and replaced as necessary.
Any unusual noise or vibration when the fan is running should be immediately investigated, as this usually an indication of wear or imbalance in the fan system.

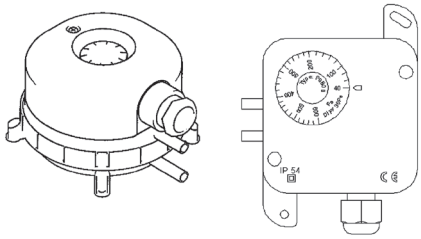
4. **Air heater check.** Recommended to perform periodical inspection and cleaning of heater. Check the plates of water air heater. The air heater is cleaned with hoover from supply air side or with air blast from exhaust air side. If it is very dirty, wash with tepid water, which will not make corrosion of aluminium. Check if position of return water temperature sensor is right. Check if electric air heater is properly fixed, wires connections are not damaged and heating elements are not bent. They can be damaged or bent due to uneven heat or uneven and turbulent air direction. Check if electric air heater is clear of unnecessary things and heating elements are not clogged, because this can cause unpleasant smell or in the worst case – dust can start burning. Air flow through the air heater should be greater than 1,5 m/s. Heating elements can be cleaned with hoover or wet textile.

5. **Air damper check (if it is required).** Not fully opened outside air damper rises up the pressure in the system. Water air heater can freeze if outside air damper does not fully close in not working air handling unit. Mounting and running of air damper should be checked and regulated.

We reserve the right to make changes without prior notice.

6. **Air filter clogging check.** Change air filters when air filter clogging is indicated. We recommend to change filters at least twice per year: before and after heating season, or more*.
   If air handling unit is working in small speed, the filters must be checked on unit maximum speed. Filters are one time used. We do not recommend cleaning them. Stop the air handling unit before changing filters.

Pressure sensor



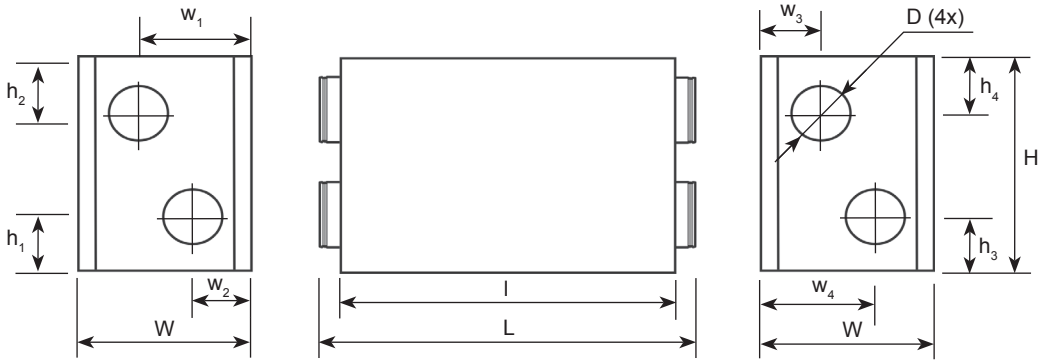
12 Picture

7. **Pressure sensor setting, which indicates impurity of filters.** Pressure sensor is set according to EN 13779:2007 standard: 100 Pa for small systems, 150 Pa for big systems. Remove cover from the pressure sensor and turn the cursor due to proper position. The indicator will turn on when filters will be clogged.
   - One of pressure sensors shown in 12 Picture can be mounted in the air handling unit.
   - Close the door after pressure sensor regulating process. Be sure that sensor does not indicate impurity of clear filters.
   - Pressure sensors in the air handling units up to size 900 are regulated and set in factory.

**** Clogged filters unbalance ventilation system, air handling unit uses more power.***

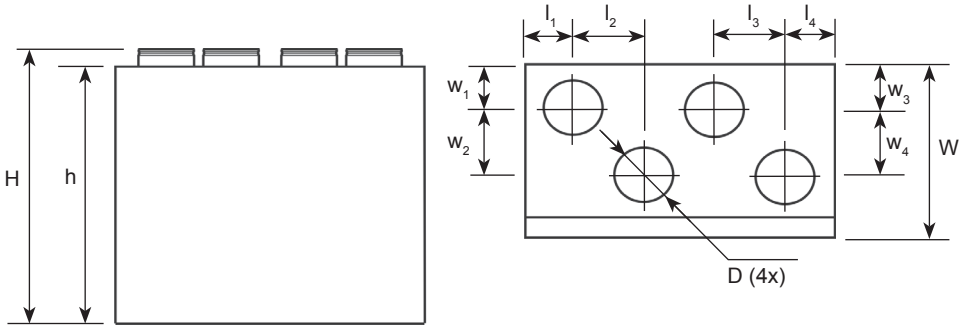
Technical Information

Horizontal units



13 Picture

Vertical units



14 Picture

Parameters / Type	Dimensions			Weight	Supply voltage	Operating current	Heater capacity		Fans input power	Ducts connection D
	Width, W	Length, L/l (L_1, L_2, L_3)[1]	Height, H/h				Hot water	Electric		
	mm	mm	mm	kg	V	A	kW[2]	kW	W	mm
REGO										
400HE-EC	510	790/640	585	50	1~ 230	6,2		1	2*105	160
400HW-EC	510	790/640	585	50	1~ 230	2,3	2,65		2*105	160
500HE-AC	635	1080/930	700	90	1~ 230	5,8		1	2*139	200
500HW-AC	635	1080/930	700	90	1~ 230	2,0	3,0		2*139	200
500HE-EC	635	1080/930	700	90	1~ 230	6,9		1	2*155	200
500HW-EC	635	1080/930	700	90	1~ 230	3,0	3,0		2*155	200
500VE-AC	635	1060	1015/940	140	1~ 230	5,8		1	2*139	250
500VW-AC	635	1060	1015/940	140	1~ 230	1,9	3,0		2*139	250
500VE-EC	635	1060	1015/940	140	1~ 230	6,9		1	2*155	250
500VW-EC	635	1060	1015/940	140	1~ 230	3,0	3,0		2*155	250
700HE-AC	635	1080/930	700	90	1~ 230	10,8		2	2*240	250
700HW-AC	635	1080/930	700	90	1~ 230	2,8	4,5		2*240	250
700HE-EC	635	1080/930	700	90	1~ 230	11,5		2	2*164	250
700HW-EC	635	1080/930	700	90	1~ 230	3,2	4,5		2*164	250
700VE-AC	635	1060	1015/940	140	1~ 230	10,8		2	2*240	250
700VW-AC	635	1060	1015/940	140	1~ 230	2,8	3,6		2*240	250
700VE-EC	635	1060	1015/940	140	1~ 230	11,4		2	2*164	250
700VW-EC	635	1060	1015/940	140	1~ 230	3,2	3,6		2*164	250
900HE-AC	795	1550/1400	795	165	3~ 400[3]	6,6		3	2*310	250
900HW-AC[4]	795	1550/1400	795	165	3~ 400[3]	2,7	2,95		2*310	250
900HE-EC	795	1550/1400	795	165	3~ 400[3]	10,2		3	2*395	250
900HW-EC[4]	795	1550/1400	795	165	3~ 400[3]	6,1	2,95		2*395	250
900VE-AC	795	1250	1345/1270	175	3~ 400[3]	6,6		3	2*310	250
900VW-AC	795	1250	1345/1270	175	3~ 400[3]	2,7	2,95		2*310	250
900VE-EC	795	1250	1345/1270	175	3~ 400[3]	10,2		3	2*395	250
900VW-EC	795	1250	1345/1270	175	3~ 400[3]	5,5	2,95		2*395	250
1200HE-EC	795	1550/1400	795	170	3~ 400[3]	12,3		4,5	2*405	315
1200HW-EC[4]	795	1550/1400	795	170	3~ 400[3]	2,7	4,7		2*405	315
1200VE-EC	795	1250	1345/1270	180	3~ 400[3]	12,3		4,5	2*405	250
1200VW-EC[4]	795	1250	1345/1270	180	3~ 400[3]	2,7	4,7		2*405	250
1600HE-EC	900	1565/1500	990	275	3~ 400[3]	12,4		4,5	2*420	300*400
1600HW-EC[4]	900	1565/1500	990	275	1~ 230	6,6	8,5		2*420	300*400
1600VE-EC	900	1500	1020/990	275	3~ 400[3]	12,4		4,5	2*420	300*400
1600VW-EC[4]	900	1500	1020/990	275	1~ 230	6,4	8,5		2*420	300*400
2000HE-EC	900	1565/1500	990	285	3~ 400[3]	17,4		7,5	2*480	300*400
2000HW-EC[4]	900	1565/1500	990	285	1~ 230	7,0	10		2*480	300*400
2000VE-EC	900	1500	1020/990	285	3~ 400[3]	17,4		7,5	2*480	300*400
2000VW-EC[4]	900	1500	1020/990	285	1~ 230	7,0	10		2*480	300*400
2500HE-EC	900	1565/1500	990	290	3~ 400[3]	17,1		7,5	2*670	300*400
2500HW-EC[4]	900	1565/1500	990	290	1~ 230	6,7	13		2*670	300*400
2500VE-EC	900	1500	1020/990	290	3~ 400[3]	17,1		7,5	2*670	300*400
2500VW-EC[4]	900	1500	1020/990	290	1~ 230	6,7	13		2*670	300*400

We reserve the right to make changes without prior notice.

Parameters / Type	Dimensions			Weight	Supply voltage	Operating current	Heater capacity		Fans input power	Ducts connection D
	Width, W	Length, L/l (L_1, L_2, L_3)[1]	Height, H/h				Hot water	Electric		
	mm	mm	mm	kg	V	A	kW[2]	kW	W	mm
3000HE-EC	1150	1860/1800 (615,570,615)	1215	440	3~ 400[3]	16,8		9	2*990	600*500
3000HW-EC	1150	1860/1800 (615,570,615)	1215	440	3~ 400[3]	4,2	12		2*990	600*500
3000VE-EC	1150	1800 (615,570,615)	1245/1215	440	3~ 400	16,8		9	2*990	400*400
3000VW-EC	1150	1800 (615,570,615)	1245/1215	440	3~ 400	4,2	12		2*990	400*400
4000HE-EC	1150	1860/1800 (615,570,615)	1215	450	3~ 400[3]	25,5		15	2*1000	600*500
4000HW-EC	1150	1860/1800 (615,570,615)	1215	450	3~ 400[3]	4,2	20		2*1000	600*500
4000VE-EC	1150	1800 (615,570,615)	1245/1215	450	3~ 400	25,5		15	2*996	400*400
4000VW-EC	1150	1800 (615,570,615)	1245/1215	450	3~ 400	4,2	20		2*996	400*400
4500VE-EC	1150	1800 (615,570,615)	1245/1215	450	3~ 400	27,3		15	2*1700	400*400
4500VW-EC	1150	1800 (615,570,615)	1245/1215	450	3~ 400	6,0	20		2*1700	400*400
4500HE-EC	1150	1800 (615,570,615)	1245/1215	450	3~ 400	27,3		15	2*1700	600*500
4500HW-EC	1150	1800 (615,570,615)	1245/1215	465	3~ 400	6,0	20		2*1700	600*500
7000HE-EC	1150	2105/1930	1520	800	3~ 400	54		30	2*2730	1200*600
7000HW-EC	1150	2105/1930	1520	820	3~ 400	10	29		2*2730	1200*600
RECU										
400HE-AC	390	1150/1000	600	55	1~ 230	13		2	2*135	200
400HW-AC	390	1150/1000	600	55	1~ 230	2,7	2,65		2*135	200
400HE-EC	390	1150/1000	600	55	1~ 230	10,7		2	2*105	200
400HW-EC	390	1150/1000	600	55	1~ 230	2,5	2,65		2*105	200
400VE-AC	390	900	945/780	62	1~ 230	10,1		2	2*135	160
400VW-AC	390	900	945/780	62	1~ 230	2,7	2,65		2*135	160
400VE-EC	390	900	945/780	62	1~ 230	10,7		2	2*105	160
400VW-EC	390	900	945/780	62	1~ 230	2,5	2,65		2*105	160
700HE-AC	490	1320/1170	600	75	1~ 230	12,9		2,5	2*240	250
700HW-AC	490	1320/1170	600	75	1~ 230	3,3	4,47		2*240	250
700HE-EC	490	1320/1170	600	75	1~ 230	13,7		2,5	2*164	250
700HW-EC	490	1320/1170	600	75	1~ 230	3,1	4,47		2*164	250
700VE-AC	490	1000	1115/950	85	1~ 230	12,9		2,5	2*240	200
700VW-AC	490	1000	1115/950	85	1~ 230	3,3	3,64		2*240	200
700VE-EC	490	1000	1115/950	85	1~ 230	13,7		2,5	2*164	200
700VW-EC	490	1000	1115/950	85	1~ 230	3,1	3,64		2*164	200
700HECF-EC	490	1540/1500	700	100	1~ 230	11,5		2	2*164	250
700HWCF-EC	490	1540/1500	700	100	1~ 230	3,6	4,5		2*164	250
700VECF-EC	490	1020	1130/1150	95	1~ 230	11,5		2	2*164	200
700VWCF-EC	490	1020	1130/1150	95	1~ 230	3,6	4,5		2*164	200
900HE-EC	490	1320/1170	600	78	3~ 400	9,3		4,5	2*170	250
900HE-AC	490	1320/1170	600	78	3~ 400	10,3		4,5	2*235	250
900HW-EC	490	1320/1170	600	78	3~ 400	4,5	4,9		2*170	250
900HW-AC	490	1320/1170	600	78	3~ 400	5,5	4,9		2*235	250
900VE-EC	490	1000	1115/950	90	3~ 400	9,3		4,5	2*170	200
900VE-AC	490	1000	1115/950	90	3~ 400	10,3		4,5	2*235	200
900VW-EC	490	1000	1115/950	90	3~ 400	4,5	4,9		2*170	200
900VW-AC	490	1000	1115/950	90	3~ 400	5,5	4,9		2*235	200

Parameters / Type	Dimensions			Weight	Supply voltage	Operating current	Heater capacity		Fans input power	Ducts connection D
	Width, W	Length, L/l (L_1, L_2, L_3)[1]	Height, H/h				Hot water	Electric		
	mm	mm	mm	kg	V	A	kW[2]	kW	W	mm
1200HE	700	1820/1670	860	195	3~ 400	14,3		6	2*409	315
1200HW	700	1820/1670	860	200	1~ 230	3,6	10		2*405	315
1200VE	700	1360	1535/1300	225	3~ 400	14,3		6	2*405	250
1200VW	700	1360	1535/1300	225	1~ 230	5,6	10		2*405	250
1600HE	700	2050/1900	900	320	3~ 400	23,2		12	2*420	359
1600HW	700	2050/1900	900	330	1~ 230	6,3	20		2*420	355
1600VE	700	1470	1510/1310	300	3~ 400	23,2		12	2*420	315
1600VW	700	1470	1510/1310	315	1~ 230	6,3	20		2*420	315
2000HE	700	2050/1900	900	325	3~ 400	32,1		18	2*480	359
2000HW	700	2050/1900	900	330	1~ 230	6,4	20		2*480	355
3000HE	790	2715/2655 (1770,885)	1365	530	3~ 400	29,9		18	2*990	600*500
3000HW	790	2715/2655 (1770,885)	1365	540	3~ 400	4,1	20		2*990	600*500
4000HE	790	2860/2800 (1770, 1030)	1365	605	3~ 400	38,4		24	2*1000	600*500
4000HW	790	2860/2800 (1770, 1030)	1365	615	3~ 400	4,1	40		2*1000	600*500
4500HE	790	2860/2800 (1770, 1030)	1365	605	3~ 400	40,2		24	2*1700	600*500
4500HW	790	2860/2800 (1770, 1030)	1365	625	3~ 400	5,9	40		2*1700	600*500
7000HW	1500	2615/2640	1520	810	3~ 400	9,6	36		2*2730	1200*600

Parameters with nominal air volume, $t_{outside}$= -23^{0}C, t_{inside}= 22^{0}C

[1] (L_1,L_2) – sectional unit

[2] parameters of hot water 80-60^{0}C, connection REGO – 1/2", REGO 4000HW/VW and RECU 1"

[3] 3~ 230V is available as an option
RECU 300 ÷ 900, REGO 400 ÷ 1200 – Ducted DH water heater.

[4] Air heater and cooler combined in one water coil.

Dimensions of Ductwork Connection

Parameters / Type	w_1	w_2	w_3	w_4	l_1	l_2	l_3	l_4	h_1	h_2	h_3	h_4
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
REGO												
400HE(W)	310	150	310	150	-	-	-	-	160	205	160	205
500/700HE(W)	390	245	245	390	-	-	-	-	220	175	175	220
500/700VE(W)	220	195	220	195	145	250	250	145	-	-	-	-
900HE(W)	500	300	300	500	-	-	-	-	245	200	200	245
900VE(W)	265	265	265	265	170	285	285	170	-	-	-	-
1200HE(W)	500	300	300	500	-	-	-	-	245	200	200	245
1200VE(W)	265	265	265	265	170	285	285	170	-	-	-	-
1600/2000/2500HE(W)	655	245	245	655	-	-	-	-	260	260	260	260
1600/2000/2500VE(W)	230	400	230	400	275	0	275	0	-	-	-	-
3000/4000/4500VE(W)	275	550	275	550	275	0	275	0	-	-	-	-
3000/4000/4500HE(W)	395	395	395	395	-	-	-	-	350	350	350	350
7000HE(W)	750	750	750	750	-	-	-	-	405	405	405	405

We reserve the right to make changes without prior notice.

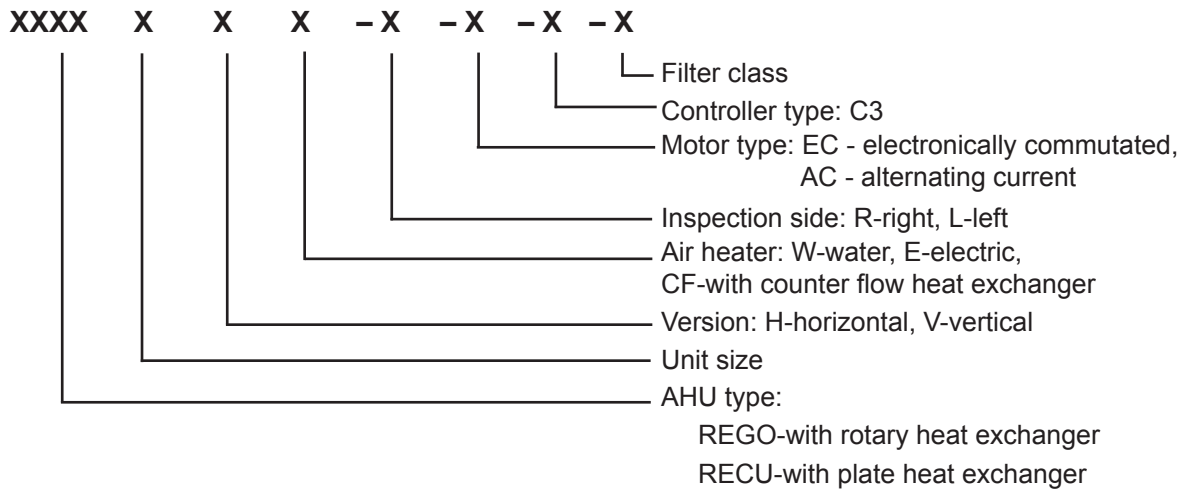
Parameters / Type	w_1	w_2	w_3	w_4	l_1	l_2	l_3	l_4	h_1	h_2	h_3	h_4
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
RECU												
400HE(W)	195	195	195	195	-	-	-	-	145	145	145	145
400VE(W)	150	90	150	90	145	200	200	145	-	-	-	-
700HE(W)	245	245	245	245	-	-	-	-	145	160	145	160
700VE(W)	170	130	170	130	160	210	210	160	-	-	-	-
700HE(W)CF	245	245	245	245	-	-	-	-	200	200	200	200
700VE(W)CF	160	160	160	160	155	255	255	155	-	-	-	-
900HE(W)	245	245	245	245	-	-	-	-	145	160	145	160
900VE(W)	170	130	170	130	160	210	210	170	-	-	-	-
1200HE(W)	350	350	350	350	-	-	-	-	220	200	220	200
1200VE(W)	250	200	250	200	210	300	300	210	-	-	-	-
1600/2000HE(W)	350	350	350	350	-	-	-	-	240	200	240	200
1600VE(W)	240	220	240	220	195	355	355	195	-	-	-	-
3000/4000/4500HE(W)	395	395	395	395	-	-	-	-	350	350	350	350
7000HE(W)	750	750	750	750	-	-	-	-	405	405	405	405

Filters

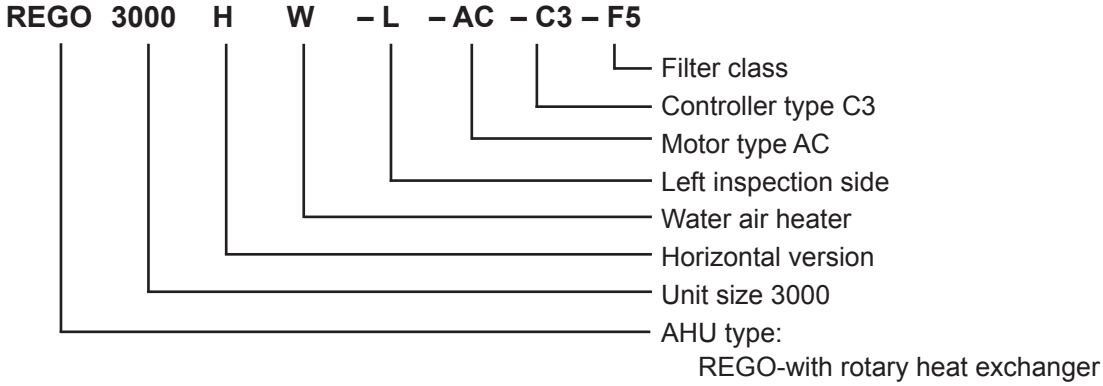
Unit	Type	Overall dimensions			Supply	Exhaust
		Type	Width	Height	Length	Length
REGO	400	PF5-PF7*	410	200	46	46
REGO	500/700	PF5-PF7*	540	260	46	46
REGO	900/1200V	BF5	592	287	360	360
REGO	900/1200H	PF7	700	325	96	96
REGO	1600/2000/2500V	PF5-PF7*	800	450	46	46
REGO	1600/2000/2500H	PF5	800	450	46	46
REGO	3000/4000/4500	BF5	892	490	300	300
REGO	7000	BF5	592	592	635	635
RECU	400	PF5-PF7*	300	195	46	46
RECU	700/900	PF5-PF7*	400	235	46	46
RECU	700CF	PF5	390	300	46	46
RECU	1200/1600/2000	BF5/BG4	592	287	360	360
RECU	3000/4000/4500	BF5/BG4	592	592	300	300
RECU	7000	BF5	592	592	635	635
Supply/Exhaust air						
PF5	Panel, class M5 (EN779)		BG4	Bag filter, class G4		
BF5	Bag filter, class M5 (EN779)					

* - F7 class filter is available as an option

Ordering Key


XXXX X X X – X – X – X – X
Filter class
Controller type: C3
Motor type: EC - electronically commutated,
AC - alternating current
Inspection side: R-right, L-left
Air heater: W-water, E-electric,
CF-with counter flow heat exchanger
Version: H-horizontal, V-vertical
Unit size
AHU type:
REGO-with rotary heat exchanger
RECU-with plate heat exchanger

Ordering sample:



Determination of Inspection side:

Right side: Looking to Air Handling Unit from inspection door side, supply air fan is on the right side.
Left side: Looking to Air Handling Unit from inspection door side, supply air fan is on the left side.

We reserve the right to make changes without prior notice.

UAB AMALVA

Ozo str. 10,
LT–08200 VILNIUS, LITHUANIA
e-mail info@amalva.lt
www.amalva.com
www.komfovent.com

2012